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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2008; month=4; day=21; hr=8; min=30; sec=27; ms=387;]

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Application No: 10501629 Version No: 2.0

Input Set:

Output Set:

Started: 2008-04-02 14:22:14.024
Finished: 2008-04-02 14:22:15.825
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 801 ms
Total Warnings: 25
Total Errors: 0
No. of SeqIDs Defined: 25
Actual SeqID Count: 25

Error code	Error Description
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W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
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W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-04-02 14:22:14.024
Finished: 2008-04-02 14:22:15.825
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 801 ms
Total Warnings: 25
Total Errors: 0
No. of SeqIDs Defined: 25
Actual SeqID Count: 25

Error code	Error Description
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SEQUENCE LISTING

<110> Gurskaya, Nadejda
Fradkov, Arkadiy
Lukyanov, Sergey
Punkova, Natalia

<120> Fluorescent Protein From Aequorea Coerulea And Uses Thereof

<130> EVRO-0006

<140> 10501629
<141> 2004-07-15

<141> 2005-07-15

<160> 25

<170> FastSEQ for Windows Version 4.0

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<212> DNA
<213> Aequoria coerulescens

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tacggaaagt taacccttaa atttatttgc actacaggaa aactacctgt tccatggcca 240
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aatggaatca aagttaactt caaaatttaga cacaacattt aagatggaaag cgttcaactt 600
gcagaccatt atcaacaaaa tactccaatt ggcgtatggcc ctgtcctttt accagataac 660
cattacctgt ccacacaatc tacccttcc aaagatccc acgaaaagag agatcacatg 720
atctatttt agttttaac agctgctcg attacacatg gcatggatga attatacaaaa 780
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<211> 238

<212> PRT

<213> Aequoria coerulescens

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20 25 30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys

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Thr	Thr	Gly
Lys	Leu	Pro
Pro	Val	Pro
Trp	Pro	Thr
Pro	Leu	Thr
Thr	Val	Phe
50	55	60
Ser	Tyr	Gly
Val	Gln	Cys
Phe	Ser	Arg
Tyr	Pro	Asp
His	Met	Lys
65	70	75
His	Asp	Phe
Phe	Lys	Ser
Ala	Met	Pro
Glu	Gly	Tyr
Ile	Gln	Glu
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Thr	Ile	Phe
Phe	Lys	Asp
Asp	Gly	Asn
Tyr	Lys	Ser
Arg	Ala	Glu
100	105	110
Lys	Phe	Gly
Gly	Asp	Thr
Leu	Val	Asn
Arg	Ile	Glu
Leu	Thr	Gly
115	120	125
Asp	Phe	Lys
Glu	Asp	Gly
Ile	Leu	Gly
Asn	Lys	Met
130	135	140
Tyr	Asn	Ala
Ala	His	Asn
Asn	Val	Tyr
Ile	Met	Thr
Asp	Lys	Ala
145	150	155
Ile	Lys	Asn
Val	Asn	Phe
Ile	Lys	Arg
His	Asn	Ile
Glu	Asp	Gly
Ser	Val	
165	170	175
Gln	Leu	Ala
Ala	Asp	His
Tyr	Gln	Gln
Asn	Thr	Pro
Ile	Gly	Asp
180	185	190
Val	Leu	Leu
Pro	Asp	Asn
His	Tyr	Leu
Ser	Thr	Gln
195	200	205
Lys	Asp	Pro
Pro	Asn	Glu
Lys	Arg	Asp
His	Met	Ile
Tyr	Phe	Glu
210	215	220
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Ala	Ile	Thr
His	Gly	Met
Asp	Glu	Leu
225	230	235

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<212> DNA
<213> Aequoria coerulescens

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aagttaaccc ttaaatttat ttgcactaca gaaaaactac ctgttccatg gccaaacactt 180
gtcactactt tctcttatgg tggtaatgc tttcaagat atccagatca tatgaaacag 240
catgacttct tcaagagtgc catgcctgaa ggttatatac agggaaagaac tatattttc 300
aaagatgacg ggaactacaa gtcgcgtgc gaagtcaagt tcgaagggtga taccctgg 360
aatagaattt agttaacagg tactgattt aaagaagatg gaaacatcct tggaaataaa 420
atggaataca actataaacgc acataatgtt tacatcatgtt cagacaaagc aaaaatgg 480
atcaaagtta acttcaaaat tagacacaac attgaagatg gaagcgttca acttgcagac 540
cattatcaac aaaatactcc aattggcgat gcccctgtcc ttttaccaga taaccattac 600
ctgtccacac aatctaccct ttccaaagat cccaaacggaa agagagatca catgatctat 660
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<211> 238
<212> PRT
<213> Aequoria coerulescens

<400> 4
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Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys

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Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe		
50	55	60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln		
65	70	75
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Ile Gln Glu Arg		
85	90	95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Ser Arg Ala Glu Val		
100	105	110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Thr Gly Thr		
115	120	125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly Asn Lys Met Glu Tyr Asn		
130	135	140
Tyr Asn Ala His Asn Val Tyr Ile Met Thr Asp Lys Ala Lys Asn Gly		
145	150	155
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val		
165	170	175
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro		
180	185	190
Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Thr Leu Ser		
195	200	205
Lys Asp Pro Asn Glu Lys Arg Asp His Met Ile Tyr Phe Gly Phe Val		
210	215	220
Thr Ala Ala Ala Ile Thr His Gly Met Asp Glu Leu Tyr Lys		
225	230	235

<210> 5
<211> 717
<212> DNA
<213> Aequoria coerulescens

<400> 5
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gatgttaatg ggcacaaatt ctctgtcagt ggagagggcg aaggtgatgc gacatacgg 120
aagttaaccc ttaaatttat ttgcactaca gggaaaactac ctgttccatg gccaaacactt 180
gtcactactt tctcttatgg tggtaatgc ttttcaagat atccagatca tatgaaacag 240
catgacttct tcaagagtgc catgcctgaa ggttatatac agggaaagaac tatattttc 300
aaagatgacg ggaactacaa gtcgcgtgct gaagtcaagt tcgaagggtga taccctgggt 360
aatagaattt agttaacagg tactgatttt aaagaagatg gaaacatcct tggaaataaa 420
atggaataca actataaacgc acataatgtt tacatcatgtt cagacaaagc aaaaaatgg 480
atcaaagtta acttcaaaat tagacacaac attgaagatg gaagcgttca acttgcagac 540
cattatcaac aaaatactcc aattggcgat ggcctgtcc ttttaccaga taaccattac 600
ctgtccacac aatctaccct ttccaaagat cccaaacggaa agagagatca catgatctat 660
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<211> 238
<212> PRT
<213> Aequoria coerulescens

<400> 6
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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys

35	40	45
Thr	Thr	Gly
Lys	Leu	Pro
Pro	Val	Pro
Trp	Pro	Thr
Leu	Val	Thr
Thr	Val	Phe
50	55	60
Ser	Tyr	Gly
Val	Gln	Cys
Phe	Ser	Arg
Tyr	Pro	Asp
His	Met	Lys
65	70	75
His	Asp	Phe
Phe	Lys	Ser
Ala	Met	Pro
Glu	Gly	Tyr
Ile	Gln	Glu
85	90	95
Thr	Ile	Phe
Phe	Lys	Asp
Asp	Gly	Asn
Tyr	Lys	Ser
Arg	Ala	Glu
100	105	110
Lys	Phe	Gly
Gly	Asp	Thr
Leu	Val	Asn
Arg	Ile	Glu
Leu	Thr	Gly
115	120	125
Asp	Phe	Lys
Glu	Asp	Gly
Ile	Leu	Gly
Asn	Lys	Met
130	135	140
Tyr	Asn	Ala
Ala	His	Asn
Asn	Val	Tyr
Ile	Met	Thr
Asp	Lys	Ala
145	150	155
Ile	Lys	Asn
Val	Asn	Phe
Ile	Arg	His
Asn	Ile	Glu
165	170	175
Gln	Leu	Ala
Ala	Asp	His
Tyr	Gln	Gln
Asn	Thr	Pro
Ile	Gly	Asp
180	185	190
Val	Leu	Leu
Pro	Asp	Asn
His	Tyr	Leu
Ser	Thr	Gln
Ser	Thr	Leu
195	200	205
Lys	Asp	Pro
Pro	Asn	Glu
Lys	Arg	Asp
His	Met	Ile
Tyr	Phe	Gly
210	215	220
Thr	Ala	Ala
Ala	Ile	Thr
His	Gly	Met
Asp	Glu	Leu
225	230	235

<210> 7
<211> 720
<212> DNA
<213> Aequoria coerulescens

<400> 7
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aagttaaccc ttaaattttt ttgcactaca gaaaaactat gacctgttcc atggccaaca 180
cttgtcacta ctttcctta tggtgttcaa tgctttcaa gatatccaga tcataatgaaa 240
cagcatgact tcttcaagag tgccatgcct gaaggttata tacagggaaag aactatattt 300
ttcgaagatg acggaaacta caagtcgcgt gctgaagtca agttcgaagg tgataccctg 360
gttaatagaa ttgagttAAC aggtactgtat ttAAAGAAG atggAAACAT cttggaaat 420
aaaatggaat acaactataa cgccacataat gtatacatca tgacagacaa agcaaaaaat 480
ggaatcaaag ttaactcaa aatttagacac aacattgaag atggaagcgt tcaacttgca 540
gaccattatc aacaaaatac tccaattggc gatggccctg tcctttacc agataaccat 600
tacctgtcca cacaatctac ctttccaa gatccccacg aaaagagaga tcacatgatc 660
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<210> 8
<211> 238
<212> PRT
<213> Aequoria coerulescens

<400> 8
Met Ser Lys Gly Ala Glu Leu Phe Thr Gly Ile Val Pro Ile Leu Ile
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Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30

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50				55						60					
Ser	Tyr	Gly	Val	Gln	Cys	Phe	Ser	Arg	Tyr	Pro	Asp	His	Met	Lys	Gln
65				70					75						80
His	Asp	Phe	Phe	Lys	Ser	Ala	Met	Pro	Glu	Gly	Tyr	Ile	Gln	Glu	Arg
	85				90										95
Thr	Ile	Phe	Phe	Glu	Asp	Asp	Gly	Asn	Tyr	Lys	Ser	Arg	Ala	Glu	Val
	100				105					110					
Lys	Phe	Glu	Gly	Asp	Thr	Leu	Val	Asn	Arg	Ile	Glu	Leu	Thr	Gly	Thr
	115				120					125					
Asp	Phe	Lys	Glu	Asp	Gly	Asn	Ile	Leu	Gly	Asn	Lys	Met	Glu	Tyr	Asn
	130				135					140					
Tyr	Asn	Ala	His	Asn	Val	Tyr	Ile	Met	Thr	Asp	Lys	Ala	Lys	Asn	Gly
145					150				155						160
Ile	Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Glu	Asp	Gly	Ser	Val
	165				170				175						
Gln	Leu	Ala	Asp	His	Tyr	Gln	Gln	Asn	Thr	Pro	Ile	Gly	Asp	Gly	Pro
	180				185				190						
Val	Leu	Leu	Pro	Asp	Asn	His	Tyr	Leu	Ser	Thr	Gln	Ser	Thr	Leu	Ser
	195				200				205						
Lys	Asp	Pro	Asn	Glu	Lys	Arg	Asp	His	Met	Ile	Tyr	Phe	Gly	Phe	Val
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	225				230				235						

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<212> DNA
<213> Aequoria coerulescens

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gtcactactc tctcttatgg ttttcaatgc ttttcaagat atccagatca tatgaaacag 240
catgacttct tcaagagtgc catgcctgaa gtttatatac agggaaagaac tatattttc 300
gaagatgacg ggaactacaa gtcgcgtgct gaagtcaagt tcgaaggtga taccctgg 360
aatagaattt agttAACAGG tactgatTTT aaagaagatg gaaacatCCT tggaaataaa 420
atggaataca actataacgc acataatgtt tacatcatgtt cagacaaAGC aaaaaatgg 480
atccaaagtta acttccaaat tagacacaaac attgaagatg gaaGCgttca acttgcagac 540
cattatcaac aaaatactcc aattggcgat ggcctgtcc ttttaccaga taaccatAC 600
ctgtccacac aatctaccct ttccaaagat cccaaacgaa agagagatca catgatctat 660
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<211> 238
<212> PRT
<213> Aequoria coerulescens

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Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30

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Thr	Thr	Gly	Lys	Leu	Pro	Val	Pro	Trp	Pro	Thr	Leu	Val	Thr	Thr	Leu
50					55					60					
Ser	Tyr	Gly	Val	Gln	Cys	Phe	Ser	Arg	Tyr	Pro	Asp	His	Met	Lys	Gln
65					70				75						80
His	Asp	Phe	Phe	Lys	Ser	Ala	Met	Pro	Glu	Gly	Tyr	Ile	Gln	Glu	Arg
	85					90						95			
Thr	Ile	Phe	Phe	Glu	Asp	Asp	Gly	Asn	Tyr	Lys	Ser	Arg	Ala	Glu	Val
	100					105				110					
Lys	Phe	Glu	Gly	Asp	Thr	Leu	Val	Asn	Arg	Ile	Glu	Leu	Thr	Gly	Thr
	115					120				125					
Asp	Phe	Lys	Glu	Asp	Gly	Asn	Ile	Leu	Gly	Asn	Lys	Met	Glu	Tyr	Asn
	130					135				140					
Tyr	Asn	Ala	His	Asn	Val	Tyr	Ile	Met	Thr	Asp	Lys	Ala	Lys	Asn	Gly
145					150				155						160
Ile	Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Glu	Asp	Gly	Ser	Val
	165					170				175					
Gln	Leu	Ala	Asp	His	Tyr	Gln	Gln	Asn	Thr	Pro	Ile	Gly	Asp	Gly	Pro
	180					185				190					
Val	Leu	Leu	Pro	Asp	Asn	His	Tyr	Leu	Ser	Thr	Gln	Ser	Thr	Leu	Ser
	195					200				205					
Lys	Asp	Pro	Asn	Glu	Lys	Arg	Asp	His	Met	Ile	Tyr	Phe	Gly	Phe	Val
	210					215				220					
Thr	Ala	Ala	Ala	Ile	Thr	His	Gly	Met	Asp	Glu	Leu	Tyr	Lys		
	225					230				235					

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<212> DNA
<213> Aequoria coerulescens

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gtcactactc tctcttatgg ttttcaatgc ttttcaagat atccagatca tatgaaacag 240
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gaagatgacg ggaactacaa gtcgcgtgct gaagtcaagt tcgagggtga taccctgg 360
aatagaatcg agttAACAGG tactgatTTT aaagaagatg gaaacatCCT tggaaataaa 420
atggaataca actataacgc acataatgtt tacatcatgtt cagacaaAGC aaaaaatgg 480
atccaaagtta acttccAAAT tagacacaaAC attgaagatg gaaGCgttca acttgcagac 540
cattatcaac aaaatactcc aattggcgat ggcctgtcc ttttaccaga taaccatAC 600
ctgtccacac aatctgcctt ttccaaagat cccaaacgaa agagagatca catgatctat 660
tttgggtttt taacagctgc tgcgattaca catggcatgg atgaactata caaataa 717

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<212> PRT
<213> Aequoria coerulescens

<400> 12
Met Ser Lys Gly Ala Glu Leu Phe Thr Gly Ile Val Pro Ile Leu Ile
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20 25 30

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln
65 70 75 80
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Ile Gln Glu Arg
85 90 95
Thr Ile Phe Phe Glu Asp Asp Gly Asn Tyr Lys Ser Arg Ala Glu Val
100 105 110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Thr Gly Thr
115 120 125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly Asn Lys Met Glu Tyr Asn
130 135 140
Tyr Asn Ala His Asn Val Tyr Ile Met Thr Asp Lys Ala Lys Asn Gly
145 150 155 160
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val